H. R. KNOWLES.

CONCEALING SCREEN FOR VISIBLE TYPE WRITERS.

APPLICATION FILED MAY 9, 1917.

1,240,349. Patented Sept. 18, 1917.

Fig. 1.

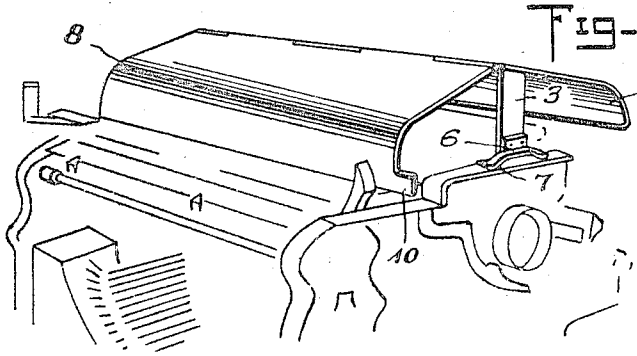


Fig. 2.

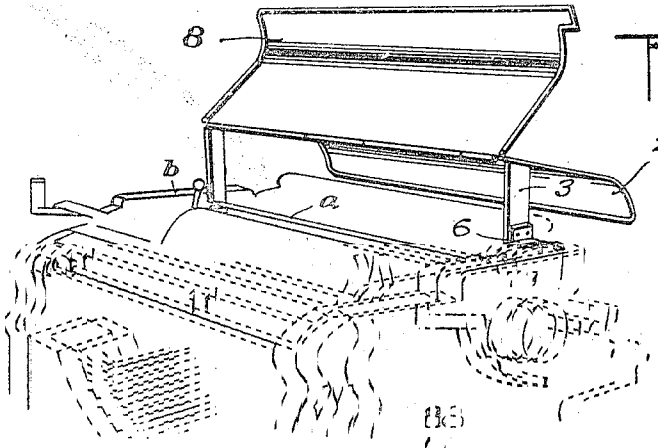


Fig. 3.

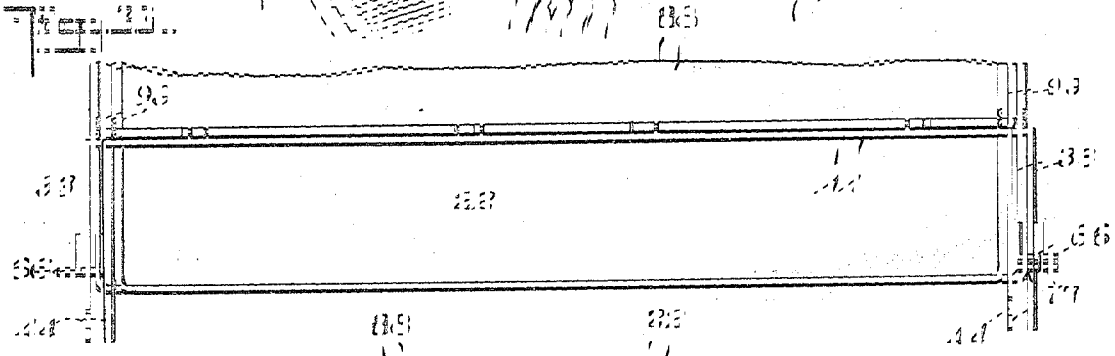
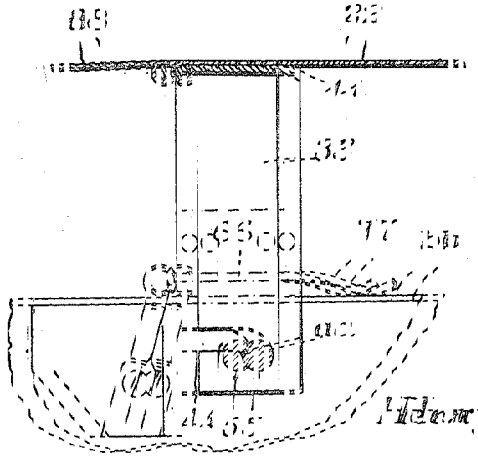


Fig. 4.



Witnesses:

Inventor

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CONCEALING-SCREEN FOR VISIBLE TYPE-WRITERS.

1,240,349. Specification of Letters Patent. Patented Sept. 18, 1917.

Application filed May 9, 1917. Serial No. 167,489.

To all whom it may concern:

Be it known that I, HENRY R. KNOWLES, a citizen of the United States, residing at Ridley Park, in the county of Delaware and State of Pennsylvania, have invented certain new and useful Improvements in Concealing-Screens for Visible Type-Writers; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates generally to typewriting machines, and more particularly to certain new and useful improvements in concealing screens for visible typewriting machines.

The primary object of the invention is to provide a screen which will enable an operator to conceal the typewritten sheet in the machine from the gaze of unauthorized persons.

Another object of the invention is to provide a screen of this character which is mounted so as to enable the operator to throw it into effective position, or to throw it out of the way when inserting or removing the sheet, or correcting errors.

A further object of the invention is to provide an improved and efficient means for detachably securing the screen to the carriage of the typewriter.

A still further object of the invention is to generally improve upon devices of this character by the provision of a simple, strong, comparatively durable and inexpensive construction, one which will be efficient and reliable in operation, and well adapted to the purpose for which it is designed.

With these and numerous other objects in view, the invention consists of certain novel features of construction, and the combination and arrangement of parts as will be hereinafter fully described and claimed.

In the accompanying drawings forming a part of the application and wherein the preferred embodiment of the invention is illustrated:

Figure 1 is a perspective view of a conventional typewriter, showing a device constructed in accordance with this invention applied thereto and in its concealing position;

Fig. 2 is a similar view showing the device in its non-concealing position;

Fig. 3 is a front view of the device detached from the typewriter, a portion of forward section being broken away;

Fig. 4 is a transverse sectional view of a portion of the device, illustrating the manner in which one of the brackets is removably secured to the typewriter.

In specifically describing the construction of the invention shown in the drawing above briefly described, similar reference characters will be placed on corresponding parts throughout the several views and reference will be herein made to the various elements by their respective indices.

To this end the numeral 1 designates a U-shaped supporting member, the arms of which are disposed in parallel relation and form a pair of brackets. Extending inwardly from one of the edges of the arms 3 at points adjacent their lower ends are notches 4, the lower edges of which at their innermost ends are provided with shoulders 5 for a purpose to be hereinafter described. Fixed upon the exterior sides of the arms 3 are stop members which may be made in a variety of ways, but which preferably consist of laterally extending plates 6. These plates 6 are provided with downwardly inclined resilient fingers 7 having upturned ends.

Connected to the intermediate portion of the member 1 is a concealing screen composed of a rear section 2 and a front section 8, at least one of these sections being pivotally mounted with respect to the member 1. In the present instance the front section 8 is shown pivotally mounted with respect to the member 1 by being hinged to the front edge of the rear section 2. The sections 2 and 8 are composed of extremely thin material preferably tin or other light metal, and have their edges crimped around a wire frame 9. The rear edge of the rear section 2 is curved downwardly, while the forward edge of the front section 8 is curved downwardly, and extending longitudinally from one side adjacent this forward edge of the front section is a lug 10, the purpose of which will be hereinafter described.

In using a device constructed as above explained, the screen is placed above the carriage of the typewriter, the notches 4 in the brackets 3 being engaged with the ends of the rod *a* on which the paper guides of the typewriter slide. The resilient fingers or ends 7 of the laterally extending plates carried by the brackets rest upon

the horizontal end bars *b* of the typewriter carriage. The proportions and location of the various parts of the brackets are such that when the ends of the rod *a* are disposed in the slots 4 and the plates 6 are resting upon the bars *b*, the ends 7 of the plates 6 will be under sufficient tension as to cause the bar *a* to be disposed at the lower parts of the slots behind the shoulders 5. Thus, the brackets are firmly secured in place. It will be noted that mounted on the interior of the carriage adjacent one of the bars *b* is a lever for adjusting the spacing mechanism of the typewriter. The forwardmost finger 7 has been omitted from the plates 6 on the bracket adapted to be disposed at this side of the carriage so as to not interfere with this lever.

When the device is assembled upon the typewriter in this manner, it will be seen that the screen is spaced slightly above the platen and over the parts of the carriage and does not interfere in any manner with the successful operation of the machine. The lug 10 arranged at the forward edge of the front section 8 of the screen rests upon a portion of the forward part of the typewriter carriage when this section is in its lowermost or concealing position. The purpose of this lug is to prevent the section from dropping into contact with any of the working parts of the machine. The screen in this position covers and conceals the typewritten page from the gaze of unauthorized persons. Should the operator at any time desire to insert or remove a sheet from the machine or correct errors, the forward section 8 of the screen may be raised and thrown out of the way. The entire screen may be quickly and easily removed from the machine by a slight downward press upon the upper ends of the brackets and simultaneous rearward movement of the same so as to disengage the notches 4 from the ends of the rod *a*.

From the foregoing description, taken in connection with the accompanying drawings, it will be seen that the objects of the invention have been effectively carried out as an extremely simple and inexpensive, yet a comparatively strong and durable concealing screen for visible typewriters has been provided. Typewriters do not have to be especially adapted for application of the invention thereto, and the same may be quickly and easily attached to or removed therefrom.

As numerous changes in form, proportion, and in the minor details of construction may be resorted to without departing from the spirit of this invention, it is to be understood that I do not wish to be limited to the precise construction herein shown and described.

I claim:—

1. The combination with a visible typewriter, of a concealing screen detachably secured to the carriage thereof and disposed above the same, said screen being composed of front and rear sections pivotally mounted with respect to each other, the rear section being disposed over the rear part of the carriage and the forward section being disposed over the forward part of the carriage.

2. The combination with a visible typewriter, of a concealing screen disposed above the carriage of the same, said screen being composed of two pivotally movable sections and a pair of brackets having notches in one of their edges for receiving the ends of the rod on which the paper guides of the typewriter slide, and laterally extending stops on the brackets resting upon the horizontal end bars of the carriage.

3. The combination with a visible typewriter, of a concealing screen disposed above the carriage of the same and composed of two pivotally movable sections and a pair of brackets, said brackets having notches in one of their edges for receiving the ends of the rod on which the paper guides of the typewriter slide, and plates extending laterally from the exterior sides of said brackets and having resilient end portions resting upon the horizontal end bars of the carriage for supporting said brackets and maintaining the ends of said rod disposed in said notches.

4. A concealing screen for visible typewriters, comprising two sections pivotally mounted with respect to each other, and means for detachably securing said screen to the carriage of a typewriter.

5. A device of the class described comprising two brackets provided with notches in one of their edges adapted to receive the rod on which the paper guides of a typewriter slide, stop members extending laterally from one of the sides of said brackets and adapted to rest upon the horizontal end bars of the typewriter, and a concealing screen attached to said brackets.

6. A device of the class described comprising two brackets provided with notches in one of their edges adapted to receive the rod on which the paper guides of a typewriter slide, a pair of plates extending laterally from one of the sides of said brackets and provided with resilient end portions adapted to rest upon the horizontal end bars of the typewriter, and a concealing screen attached to said brackets.

7. A device of the class described comprising a U-shaped member, a concealing screen composed of front and rear sections attached to said member, the arms of said member being provided with notches in one

of their edges adapted to receive the rod on which the paper guides of a typewriter slide, and stop members extending laterally from one of the sides of said arms and adapted to rest upon the horizontal end bars of the typewriter.

In testimony whereof I have hereunto set my hand in the presence of two subscribing witnesses.

HENRY R. KNOWLES.

Witnesses:
HIRAM HATHAWAY, Jr.,
MARTHA H. MELICK.